

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P30813

Luminaire Tested: **2GR8-232A125-UNV-EB81**

Issue Date: 3/3/2020



Test Information

Test Method: LM-41-14
Report Number: P30813
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 2GR8-232A125-UNV-EB81
Description: METALUX 2' X 4' COMMERCIAL TROFFER WITH ACRYLIC PRISMATIC LENS, NOM.
0.125" THICK
Light Source: (2) DOUBLE BIPIN T8 LINEAR FLUORESCENT LAMPS 5000K
Ballast/Driver: -
GE232MAX-N/ULTRA

Summary

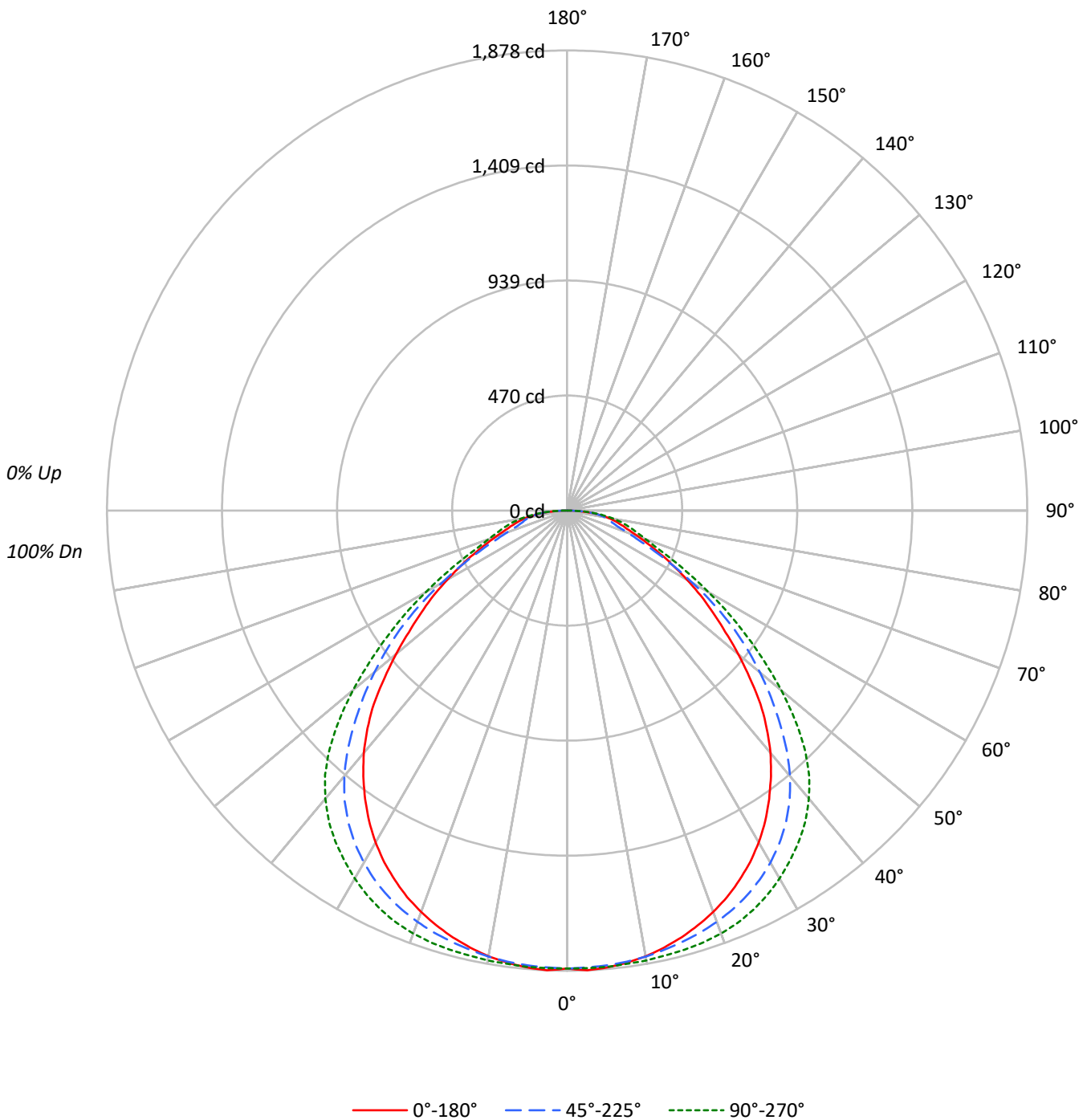
Lumens per Lamp: 3100 (2 lamps)
Luminaire Lumens: 4898.7 lumens
Efficiency: 79.0%
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.37 / 1.38
Luminous Opening: Rectangular (W 1.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	94	94	94	94	92	92	92	92	88	88	88		84	84	84		81	81	81	79
1	86	83	80	77	84	81	78	76	78	75	73		75	73	71		72	70	69	67
2	79	73	68	64	77	72	67	63	69	65	61		66	63	60		64	61	59	57
3	73	65	59	54	71	63	58	53	61	56	52		59	55	51		57	54	51	49
4	67	58	51	46	65	57	50	46	55	49	45		53	48	44		51	47	44	42
5	62	52	45	40	60	51	45	40	49	44	39		48	43	39		46	42	38	37
6	57	47	40	35	55	46	40	35	45	39	35		43	38	34		42	38	34	32
7	53	43	36	31	52	42	36	31	41	35	31		40	34	31		39	34	30	29
8	49	39	32	28	48	38	32	28	37	32	28		36	31	27		35	31	27	26
9	46	36	29	25	45	35	29	25	34	29	25		34	28	25		33	28	25	23
10	43	33	27	23	42	33	27	23	32	26	23		31	26	23		30	26	22	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2999	2999	2999
5°	3015	3001	3010
10°	3009	3011	3037
15°	2995	3027	3081
20°	2976	3050	3137
25°	2946	3070	3183
30°	2898	3074	3213
35°	2815	3048	3230
40°	2704	2964	3215
45°	2532	2784	3109
50°	2274	2564	2848
55°	2031	2291	2509
60°	1813	1903	2137
65°	1598	1503	1788
70°	1440	1215	1595
75°	1432	1184	1643
80°	1562	1451	1783
85°	1694	1749	1970



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	22.5°	45°	67.5°	90°	Flux
0°-10°	177.5	3.6	2.9	0°	1869	1869	1869	1869	1869	
10°-20°	515.4	10.5	8.3	5°	1872	1863	1863	1862	1869	178
20°-30°	797.5	16.3	12.9	15°	1803	1803	1822	1839	1855	509
30°-40°	966.3	19.7	15.6	25°	1664	1682	1734	1777	1798	766
40°-50°	946.2	19.3	15.3	35°	1437	1478	1556	1617	1649	897
50°-60°	730.8	14.9	11.8	45°	1116	1143	1227	1316	1370	854
60°-70°	428.1	8.7	6.9	55°	726	758	819	890	897	653
70°-80°	235.7	4.8	3.8	65°	421	400	396	452	471	421
80°-90°	101.1	2.1	1.6	75°	231	207	191	231	265	247
90°-100°	0.0	0.0	0.0	85°	92	92	95	108	107	97
100°-110°	0.0	0.0	0.0	90°	0	0	0	0	0	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	1490.4	30.4	24.0							
0°-40°	2456.8	50.2	39.6							
0°-60°	4133.8	84.4	66.7							
0°-90°	4898.7	100.0	79.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	4898.7	100.0	79.0							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1869	1869	1869	1869	1869
2.5°	1878	1868	1866	1864	1869
5°	1872	1863	1863	1862	1869
7.5°	1861	1854	1857	1859	1866
10°	1847	1841	1848	1855	1864
12.5°	1827	1824	1836	1848	1859
15°	1803	1803	1822	1839	1855
17.5°	1775	1779	1806	1831	1848
20°	1743	1750	1786	1818	1837
22.5°	1707	1719	1763	1802	1821
25°	1664	1682	1734	1777	1798
27.5°	1617	1641	1700	1747	1769
30°	1564	1594	1659	1709	1734
32.5°	1504	1539	1611	1666	1693
35°	1437	1478	1556	1617	1649
37.5°	1366	1411	1492	1562	1598
40°	1291	1330	1415	1492	1535
42.5°	1206	1241	1326	1410	1462
45°	1116	1143	1227	1316	1370
47.5°	1011	1041	1128	1213	1260
50°	911	943	1027	1108	1141
52.5°	814	850	925	1002	1017
55°	726	758	819	890	897
57.5°	647	665	706	773	782
60°	565	570	593	653	666
62.5°	489	479	489	545	563
65°	421	400	396	452	471
67.5°	359	331	316	374	394
70°	307	278	259	314	340
72.5°	263	239	216	268	298
75°	231	207	191	231	265
77.5°	202	178	175	202	231
80°	169	152	157	174	193
82.5°	133	124	130	145	150
85°	92	92	95	108	107
87.5°	47	52	52	61	59
90°	0	0	0	0	0

(END OF REPORT)